

Title (en)
SLIDING PART

Title (de)
SCHIEBETEIL

Title (fr)
PARTIE COULISSANTE

Publication
EP 2902677 A4 20160511 (EN)

Application
EP 13840285 A 20130926

Priority
• JP 2012218911 A 20120929
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Abstract (en)
[origin: US2015115537A1] A sliding component is characterized in that dimples are provided on one sealing face of a pair of sliding parts that mutually slide relative to each other, where the cavitation formation area on the upstream side of each dimple is positioned closer to the low-pressure fluid side and the positive-pressure generation area on the downstream side is positioned closer to the high-pressure fluid side, and the fluid that has been suctioned in the cavitation formation area of each of the above dimples travels in the dimple and is returned to the high-pressure fluid side from the positive-pressure generation area.

IPC 8 full level
F16J 15/34 (2006.01)

CPC (source: CN EP US)
F16J 15/34 (2013.01 - US); **F16J 15/3412** (2013.01 - CN EP US); **F16J 15/348** (2013.01 - EP US); **F16J 15/40** (2013.01 - US)

Citation (search report)
• [X] WO 2012046749 A1 20120412 - EAGLE IND CO LTD [JP], et al & EP 2626604 A1 20130814 - EAGLE IND CO LTD [JP]
• [X] EP 0684413 A1 19951129 - NIPPON PILLAR PACKING [JP]
• [X] EP 0499370 A1 19920819 - CRANE JOHN UK LTD [GB]
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Cited by
EP2990700A4; EP3361128A4; US11473680B2; KR20190071793A; EP3553353A4; EP4191098A1; EP3485184A4; EP4141296A1

Designated contracting state (EPC)
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US 2015115537 A1 20150430; US 9777840 B2 20171003; CN 104334938 A 20150204; CN 104334938 B 20170707;
EP 2902677 A1 20150805; EP 2902677 A4 20160511; EP 2902677 B1 20180822; JP 6058018 B2 20170111; JP WO2014050920 A1 20160822;
WO 2014050920 A1 20140403

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